

Title (en)  
ACTUATING AND SENSING MODULE

Title (de)  
BETÄTIGUNGS- UND ERFASSUNGSMODUL

Title (fr)  
MODULE D'ACTIONNEMENT ET DE DÉTECTION

Publication  
**EP 3557248 A1 20191023 (EN)**

Application  
**EP 19157161 A 20190214**

Priority  
TW 107111394 A 20180330

Abstract (en)  
An actuating and sensing module is provided. The actuating and sensing module includes a main body (1), a particle monitoring base (2), a plurality of actuators and a plurality of sensors. The main body (1) includes a first separating chamber (1a) having a first compartment (11d) and a second compartment (11e) and a second separating chamber (1b) having a third compartment (12d) and a fourth compartment (12e). The plurality of actuators include a first actuator (31) disposed between the second compartment (11e) and the first partition (11c) and a second actuator (32) disposed within the accommodation recess (22). The plurality of sensors include a first sensor (41), a second sensor (42) and a third sensor (43). The first sensor (41) is disposed in the first compartment (11d) for monitoring the gas. The second sensor (42) is disposed in the third compartment (12d) for monitoring the gas in the third compartment (12d). The third sensor (43) is located in the monitoring channel (21) for monitoring the gas in the monitoring channel (21).

IPC 8 full level  
**G01N 33/00** (2006.01); **F04B 43/04** (2006.01)

CPC (source: EP US)  
**F04B 37/18** (2013.01 - US); **F04B 45/047** (2013.01 - EP US); **G01N 33/0009** (2013.01 - EP US); **G01N 33/0016** (2013.01 - EP US); **G01N 33/0031** (2013.01 - EP US); **G01N 33/0039** (2013.01 - US); **G01N 33/004** (2013.01 - US); **G01N 33/0047** (2013.01 - US)

Citation (search report)

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- [Y] US 2014377099 A1 20141225 - HSUEH TA-WEI [TW], et al
- [A] EP 2733484 A1 20140521 - SENSIRION AG [CH]
- [A] US 2010229658 A1 20100916 - GLEZER ARI [US], et al
- [A] TW M553862 U 20180101 - MICROJET TECHNOLOGY CO LTD [TW]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3557248 A1 20191023**; JP 2019203877 A 20191128; JP 7064459 B2 20220510; TW 201942558 A 20191101; TW I682156 B 20200111; US 10908137 B2 20210202; US 2019302076 A1 20191003

DOCDB simple family (application)  
**EP 19157161 A 20190214**; JP 2019029555 A 20190221; TW 107111394 A 20180330; US 201916277609 A 20190215